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"AS-BUILT" DESIGN SPECIFICATION
FOR
SCATTER PLOTS FOR DIRECT WHEAT

Job Order 71-475

TIRF 78-0027

(E80-10250) AS-BUILT DESIGN SPECIFICATION
FOR SCATTER PLOTS FOR DIRECT WHEAT (LOCKHEED
Electronics Co.) 66 p HC A04/MF A01

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Prepared By
Lockheed Electronics Company, Inc.
Systems and Services Division
Houston, Texas

Contract NAS 9-15200

For
EARTH OBSERVATIONS DIVISION
SCIENCE AND APPLICATIONS DIRECTORATE



National Aeronautics and Space Administration
LYNDON B. JOHNSON SPACE CENTER
Houston, Texas

October 1978

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JSC-14546

CHANGE SHEET
FOR
"AS-BUILT" DESIGN SPECIFICATION
FOR
SCATTER PLOTS FOR DIRECT WHEAT
TIRF 79-0001
Change 1
March 1979



J. I. Morrow
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Scientific Applications Software Section

Page 1 of 27 pages
(with enclosures)

After the attached replacement pages have been inserted and the following pen and ink changes have been made, insert this change sheet between the cover and the title page and write on the cover "Change 1 inserted".

Note: A black bar in the margin of the replacement page indicates the information that was changed or added. Added and replaced pages are designated by a notation in the lower righthand corner.

1. Remove page 2-1 and insert replacement page 2-1.
2. Pages 3-10, para. 3.2, 3.3, change "called subroutines" to "calling routine".
3. Page 3-13, para. 3.2.5.1, change "SPLT" to "SWPLT".
4. Page 3-13, para. 3.2.5.3, change "(fig)" to "(fig 4)".
5. Remove Figure 4 (following page 3-13) and insert replacement Figure 4.
6. Remove page 3-14 and insert replacement page 3-14.
7. Remove page 3-16 and insert replacement page 3-16.
8. Remove CAMPLT output and CAMPLT listing (22 pages following page 3-17) and insert replacement CAMPLT output and CAMPLT listing (22 pages).

Signature of person incorporating changes

Date

LEC-12822

JSC- 14546

"AS-BUILT" DESIGN SPECIFICATION
FOR
SCATTER PLOTS FOR DIRECT WHEAT

Job Order 71-475

TIRF 78-0027

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1. SCOPE

This document describes the programs which together provide the capability of producing scatter plots in two different projections for use by CAMS in implementing the direct wheat procedure.

2. APPLICABLE DOCUMENTS

1. Giddings, L. E.; et al.
"As-Built" Design Specification for the CAMS Image-100 Hybrid System. August 1977 Job Order 71-195, LEC-10822, Contract NAS-9-15800.
2. Earth Resources Data Format Control Book, Vol 1 Section 6 PHO-TR543.
3. CAMS/CAS Interface Tape Interface Control Document (Rev. B) Feb 1978 LACIE - C00708 (Rev. B) JSC-11328.
4. Software Requirements for Scatter Plots to Aid With Direct Wheat Procedures (TIRF 78-0027) 5/18/78.
5. Large Area Crop Inventory Experiment (LACIE) Users Guide Vol IBM - Federal Systems Division Contract NAS 9-14350.
6. TIRF 79-0001, Landsat "C" Upgrade to "CAMPLT".

Change 1
March 8, 1979

3. SYSTEM DESCRIPTION

3.1 HARDWARE DESCRIPTION

Not applicable.

3.2 SOFTWARE DESCRIPTION

The programs described herein provide the capability to load the spring wheat data file with spectral values from spectral unload tapes, and analyst labels from CAMS/CAS Interface tapes, then, under analyst control, produce spectral plots using this data. These programs are run separately in batch mode.

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3.2.1 SOFTWARE COMPONENT NO. 1 (DOTLDB)

The program DOTLDB (DOT LOAD BATCH) reads a spectral unload utility tape and stores the spectral values found there for the 209 grid points in the Spring Wheat Data File. This data is loaded in 'natural' dot order.

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3.3. DATA FLOW

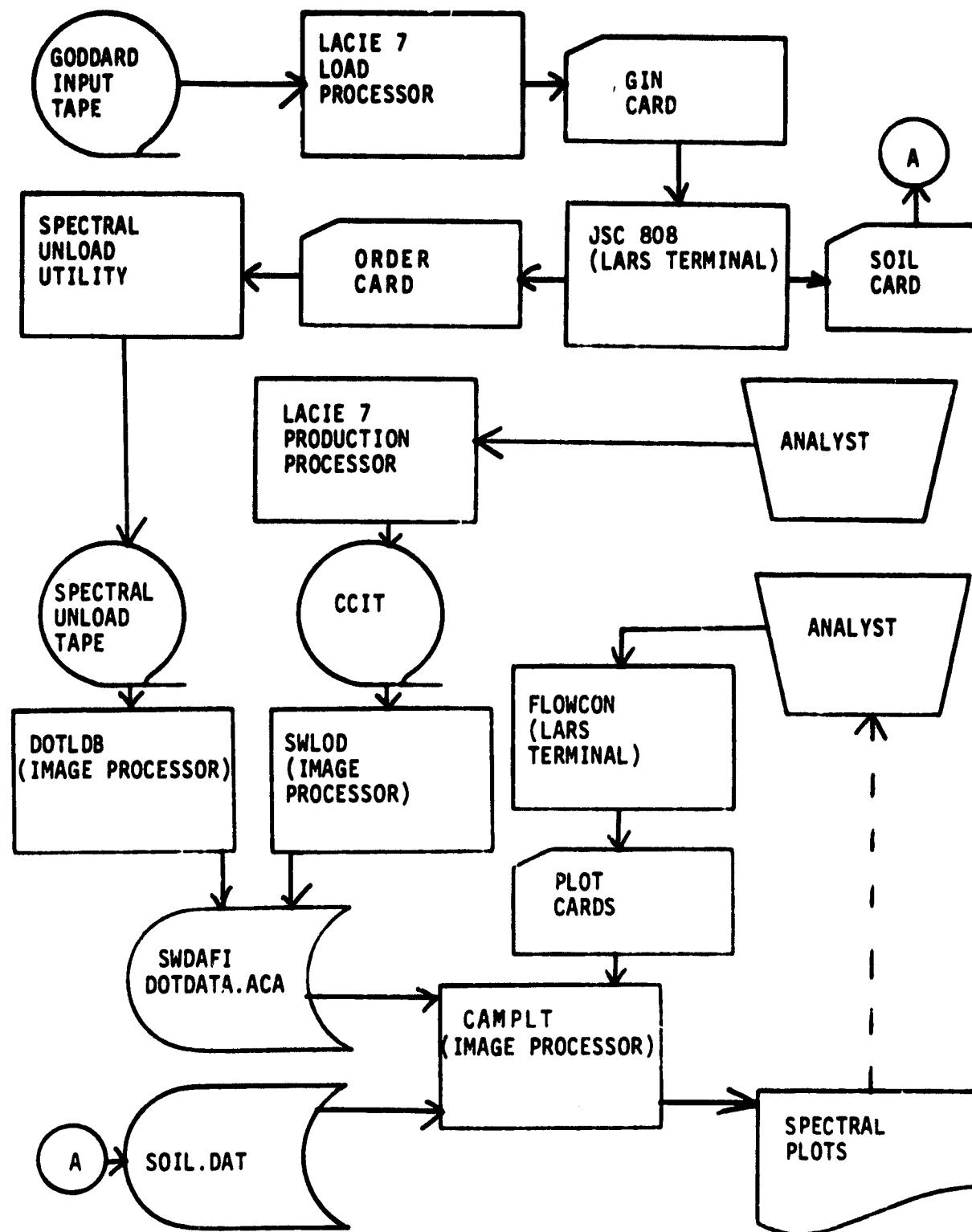


Figure 1 Data Flow

3.2.1.1 Linkages

DOTLDB run in batch mode. It calls several entries to LECTAP: EBTASC, IDATE, SWAB, TATCH, TFILE, TIME, TINIT, TREAD, TRWD, TWAIT (ref.1)

In addition it calls STORX.

3.2.1.2 Interfaces

Entries to LECTAP interface through the calling sequence and and through labeled common /STATUS/.

The interface to STORX is through the calling sequence and the labeled common /ANCIL/.

3.2.1.3 Inputs

DOTLDB is run in batch mode by the following deck:

```
$JOB/NAME=CAMS/MCK/ACCOUNT=160 250
$DATA
0 0 999
$END
$MCK RUN DOTLDB
$END
```

DOTLDB reads a spectral unload utility tape from the ERIPS system. A spectral unload utility tape is in universal format. The header is identical to the usual image unload tape header. The image is replaced with spectral values for the 209 grid points. One tape may contain 1000 acquisitions. DOTLDB will handle 999 acquisitions.

3.2.1.4 Outputs

DOTLDB creates a report on the line printer reporting each segment loaded to the Spring Wheat Data File (fig2).

3-4
6

SPECTRAL DATA UNLOAD REPORT (SUCHNE)

PAGE 2 DATE 0/29/76
FILE 14125126

SEGMENT NO. YEAR JETLAW DATE

1e44	76	257
1e4	76	257
1e3	76	257
1e2	76	257
1e1	76	257
1e0	76	257
2e7	76	257
2e6	76	257
2e5	76	257
2e4	76	257
2e3	76	257
2e2	76	257
2e1	76	257
2e0	76	257
3e9	76	257
3e8	76	257
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37e3	76	257
37e2	76	257
37e1	76	257
37e0	76	257
38e9	76	257
38e8	76	257
38e7	76	257
38e6	76	257
38e5	76	257
38e4	76	257
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38e0	76	257
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39e6	76	257
39e5	76	257
39e4	76	257
39e3	76	257
39e2	76	257
39e1	76	257
39e0	7	

The spectral values for 209 points are passed to STORX to be stored in [200,7] DOTDATA.ACA under the code 'SWCHJ' where J=1, ..., 4 is the channel number, with the acquisition date for date (DAT(1), DAT(2)).

3.2.1.5 Storage

Total space allocated = 6727.

3.2.1.6 Description

DOTLDB first reads the batch deck to identify the tape drive used and the number of acquisitions to be loaded. It then initializes the tape drive and starts processing. The processing is accomplished in a DO Loop which reads the header, obtains the segment number and date, then reads the dot data. The dot data is loaded into 4 linear arrays (CHJ(209), J=1,4) in natural order, not the order implied by the (11,19) dimensioning in STORX, and passed to STORX for storing. After this processing, is complete, for all acquisitions, the tape is rewound and a line printer report is created.

3.2.1.7 Flowchart

Not applicable.

3.2.1.8 Listing

0039 20 2F P81,T07511L
 0040 CALL THEAD(2,61FF1.1537)
 0041 CALL T-WAIT(2)
 0042 TPT 1 0E0. 0663 0T 7E 33
 0043 CALL SDA2(SEGHA)
 0044 CALL FPT/SEGHT(22297,21176,2)
 0045 C(1)=A(2)
 0046 C(2)=A(1)
 0047 1E5.1F(02,111,C(1)) 0T2E(1)
 R048 CALL FHTASC(HUFFI(2251),A(117,3)
 0049 C(1)=A(2)
 C050 C(2)=A(1)
 J051 C(3)=A(3)
 R052 1E5.1F(02,111,C(1)) 0T2E(1)
 0053 1E5.1F(02,111,C(1)) 0T2E(1)
 0054 2RTF1(1,X1)=SEG1
 R055 PR15L(2,X)SHRAT(1)
 R056 PR15L(3,X)SHRAT(2)
 0057 CALL TREAD(2,PR15F2,630)
 0058 CALL TWAIT(2)
 IF(1,0E0. "1661 0T 18 3C
 R059 CALL TFILE(2,1)
 C060 C2 10 P81,11 1LPA5 CHANNEL ARRAYS (CH1, ETC.)
 R061 J=1,1X1(P) 1LPA5 ATOMAL (19,11) ORDER
 R062 K=1,0X2(P) 1LPA5 (11,15) IMPLIED BY STORM (AND FETC)
 R063 1
 0064 CH1(K)=B15F2(J)
 0065 CH2(X)=B15F2(J+19)
 R066 CH3(X)=B15F2(J+3F)
 R067 CH4(X)=B15F2(J+57)
 UC68 J=J+1
 R069 K=K+1
 R070 1F1A,ME. (INDX2(P) + 19) GE 101
 R071 13 CANTINUE
 R072 CALL S1D2X(SEGCH,CH1,0SK(F107)
 R073 CALL S1D2X(SEGCH,CH2,0SK(C420))
 R074 CALL S1D2X(SEGCH,C,3,0SK(C407))
 R075 CALL S1D2X(SEGCH,CH4,0SK(C400))
 R076 20 CANTINUE
 R077 30 CALL TWAIT(2)
 R078 CALL TWAIT(2)
 R079 DP 35.081,XX 1WRITE THE LINE PRINTER REPORT
 R080 IF(L1LT1,0E0. 5D7) G*7E 31
 R081 32 L1,C1HLLYCTR01
 R082 M1T1(6,111) (PRHTF1L(G,D),CH1,3)
 R083 C2 1. 35
 R084 J1 L1W1T20
 R085 00AS PAGE=PAGE+1
 R1A6 WRITE(6,107) PAGE
 R027 WRITE(6,113) X,Y,2
 R028 1E1T(6,114) (F(1),0L=1,4)
 R029 1E1T(6,109)
 DU90 0A T 32
 R091 35 CH1,1E
 R092 WRITE(6,104)
 R093 STEP
 L094 F,N.

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2D1X1	1/2	2-011226	0135260	3010	1111	1
2D1X2	1/2	2-011226	0135260	3010	1111	1

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LAHF1 ADDRESS	LAHF2 ADDRESS	LAHF3 ADDRESS	LAHF4 ADDRESS	LAHF5 ADDRESS	LAHF6 ADDRESS	LAHF7 ADDRESS	LAHF8 ADDRESS
1-1-3712	16-00-00	20-00	36-10-001124	31-00-00	1-0-0011316	31-00-00	1-0-0011316
32-00-00	16-00-00	20-00	36-10-000000	31-00-00	1-0-000000	31-00-00	1-0-000000
107-0	3-1-0-14	16-00	169-0	3-0-00104	110-0	111-0	3-0-00104
112-0	3-1-0-164	113-0	3-0-00233	31-00-00	1-0-000000	31-00-00	1-0-000000

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3.2.2 SOFTWARE COMPONENT NO. 2 (SWLOD)

SWLOD (Spring Wheat Load) reads a CCIT tape and, for each spring wheat segment, loads the analyst dot labels into the Spring Wheat Data File.

3.2.2.1 Linkages

SWLOD runs in batch mode from a deck. It calls CDRED and LABLOD. CDRFD is documented in (ref.1).

3.2.2.2 Interfaces

SWLOD and LABLOD interface with CDRED through the calling sequence and the labeled commons /CBIAS/, /DUMMY/, /CLCOM/. These are implemented by the statement INCLUDE 'COMMON1.DAT'.

3.2.2.3 Inputs

The batch deck for SWLOD is:

```
$JUB/NAME=CAMS/MLR/ACLUUNT=160 250
$DATA
M
1
$TUD
$MLR KUN SWLUD
$TUD
```

SWLOD reads a standard LACIE 7 CAMS-CAS interface tape. Full description of this tape can be found in (ref.).

3.2.2.4 Outputs

None.

3.2.2.5 Storage

Total space allocated = 8015.

3.2.2.6 Description

SWLOD is the driver for the program which loads analyst labels to Spring Wheat Data File. CDRED on first calling, determines from the batch deck, which tape unit to read. CDRED then reads one record. SWLOD tests each record to determine whether it is a header record or an End Of File record. For header records, segment number and spring wheat marker are obtained. If the spring wheat marker is 'S', then LABLOD is called when a 'D' record is found.

3.2.2.7 Flowchart

Not applicable.

3.2.2.8 Listing

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3.2.3 SOFTWARE COMPONENT 3 (LABLOD)

LABLOD (LABEL LOAD) calls CDRED to get all analyst labels, puts them in an (11,19) array, passes them to STORX for storage and writes a line of the report.

3.2.3.1 Linkages

Subroutine LABLOD is called by SWLOD each time a spring wheat file is found on the CCIT. It calls CDRED and STORX.

3.2.3.2 Interfaces

Interfaces with SWLOD and CDRED are the calling sequence and labeled commons /CBIAS/, /DUMMY/, /CLCOM/.

Interface with STORX is through the calling sequence and the labeled common /ANCIL/.

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3.2.3.3 Inputs

All inputs are through the calling subroutines.

3.2.3.4 Output

The analyst labels are passed to 'STORX' under the code name 'SWDAFI' (for Spring Wheat Data File) with the fixed date 78,000. The fixed date means only the most recent labels are accessible.

For each batch of labels loaded, one line of printer output is generated.

ANALYST LABEL UNLOAD REPORT - SUMMARY - 76000

SEGMENT	1000	1000	1000
SEGMENT	1000	1000	1000
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Figure 3 OUTPUT FROM LAB100

1 - 1000 - 1000 - 1000

ORIGINAL POOR IMAGE QUALITY

3.2.3.5 Storage

Total space allocated = 6873

3.2.3.6 Description

LABLOD first sets the storage date to 78,000. It then loads and reads analyst dot labels into an array which is (11,19). This is not the natural dot order. Having loaded all the dot labels, they are passed to STORX for storage under the code 'SWDAFI' at date 78,000. Then control is passed back to SWLOD.

3.2.3.7 Flowchart

Not applicable.

3.2.3.8 Listing

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3.2.4 SOFTWARE COMPONENT 4 (STORX)

STORX is identical to the program STORE except that the Spring Wheat Data File [200,7] DATDATA.ACA is accessed rather than a local file.

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3.2.5 SOFTWARE COMPONENT 5 (CAMPLT)

CAMPLT runs in batch mode from a deck supplied by FLOCON when requested by a CAMS analyst. It accesses the spring wheat data file and creates spectral plot output which is given to the analyst.

3.2.5.1 Linkages

CAMPLT runs in batch mode. It calls FETCX and SWPLT

3.2.5.2 Interfaces

CAMPLT interfaces with FETCX through the calling sequence and through the labeled common /ANCIL/.

CAMPLT interfaces with SWPLT through the calling sequence and through the labeled commons /GRAPH/ and /PLOT/.

3.2.5.3 Inputs

CAMPLT reads the FLOCON supplied analyst deck (fig)4.

CAMPLT reads the data file [200,7] SOIL.DAT to get the estimated soil greenness value.

CAMPLT obtains spectral values for the dots from the spring wheat data file through FETCX.

3.2.5.4 Outputs

Output from CAMPLT is as follows:

1. Listing of the dots in natural order with labels, dot identification, and green number, brightness coordinates.
2. Listing of the dots in green number order with labels, dot identification, and green number, brightness coordinates.

"CAMP LT" INPUT DECK

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Change 1
March 8, 1979

Figure 4

3. Plot of the dots in Brightness, Green number, plotting character is analyst label, or number of hits.
4. Density plot, more hits plot darker, in Brightness, Green number.
5. Listing of the 209 plotting labels in a 19 by 11 grid.
6. Identical to 1)-4) except Brightness, Green Number are replaced by OLPARS derived coordinates.

3.2.5.5 Storage

Total space allocated = 9953.

3.2.5.6 Description

CAMPLT first reads the batch input deck. From the first GRAPH card read it obtains the segment number, acquisition date, satellite identification, and a flag to user or not use previous analyst labels. From each DOT card it gets a valid plotting symbol and optionally, a listing of dots to plot with this symbol. A second GRAPH card, a STOP card, or an end of data initiates processing. A second GRAPH card sets a flag which continues processing after the first segment is processed.

In further processing, the first step is to read soil cards until a match for segment and date is found. If no match is found, the last one is used and a message typed.

Then, if previous analyst labels are to be used, they are retrieved by FETCX. These labels are used to label any dot not previously labeled by a DOT card.

Next the spectral values are retrieved from the Spring Wheat Data File by FETCX, (calibrated if satellite is Landsat 3,) and transformed to the plotting values. Unfortunately, space limitation required the destruction of these spectral values through an equivalence statement.

Change 1
March 8, 1979

With all the data in the machine, the next step prints the data in natural order. Then the data is put in green number order and printed.

Now the plotting starts. First the correct plotting character for each dot is defined. For the first plot only characters from Dot cards are plotted. 'N' is plotted as '.', multiple hits are plotted as numbers. For the second plot, the same dots are plotted with different characters. After these plotting characters are defined, SWPLT is called to do the actual plotting.

Then the labels are printed in grid position, OLPARS weightings are initialized and the OLPARS loop is started.

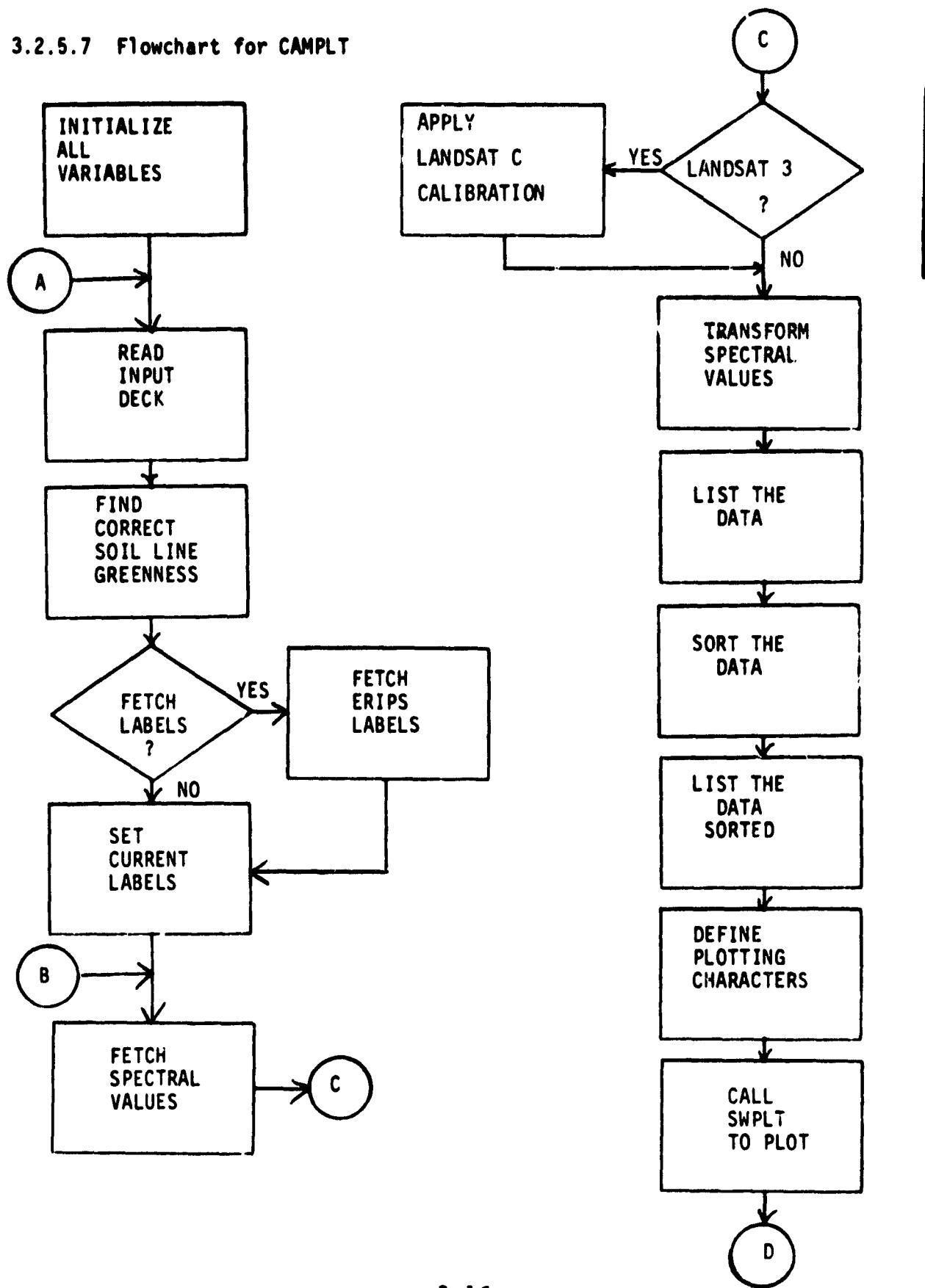
In case a second segment card initiated processing, after the OLPARS plot is made, the program loops to the beginning. Otherwise it stops.

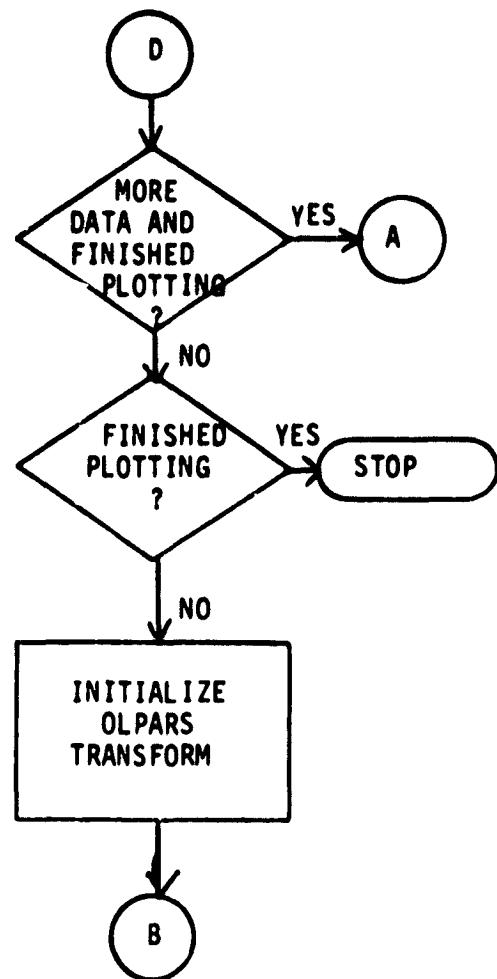
3.2.5.7 Flowchart

The Flow chart follows.

3.2.5.8 Listing

3.2.5.7 Flowchart for CAMPLT





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12. *Leucanthemum vulgare* L. (syn. *L. coronarium* L.)
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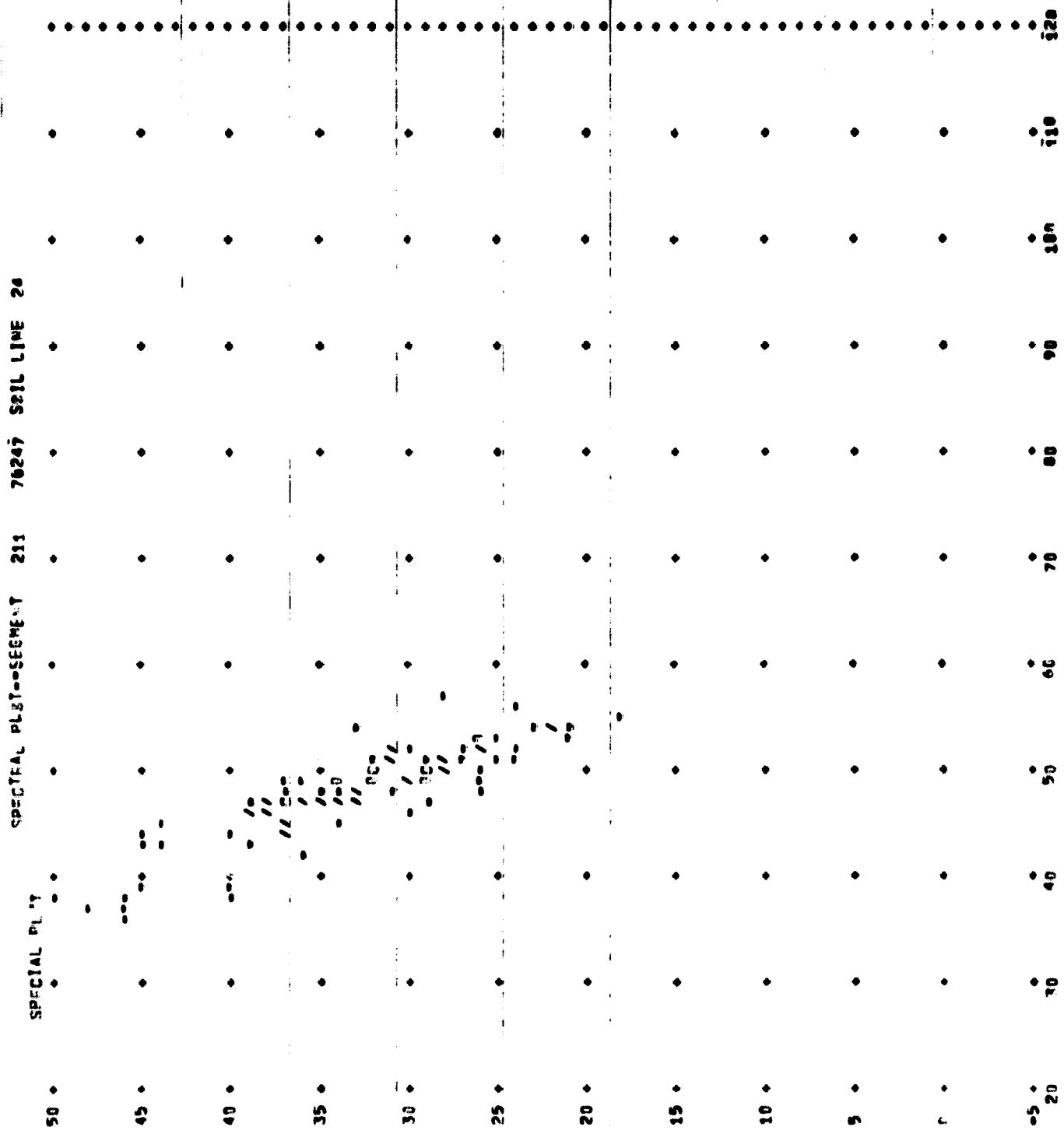
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PIX LBL 1-16 17-32 33-48 49-64 65-80 81-96 97-112 113-128 129-144 145-160 161-176 177-192 193-208 209-224 225-240 241-256 257-272 273-288 289-304 305-320 321-336 337-352 353-368 369-384 385-400 401-416 417-432 433-448 449-464 465-480 481-496 497-512 513-528 529-544 545-560 561-576 577-592 593-608 609-624 625-640 641-656 657-672 673-688 689-704 705-720 721-736 737-752 753-768 769-784 785-800 801-816 817-832 833-848 849-864 865-880 881-896 897-912 913-928 929-944 945-960 961-976 977-992 993-1008 1009-1024 1025-1040 1041-1056 1057-1072 1073-1088 1089-1104 1105-1120 1121-1136 1137-1152 1153-1168 1169-1184 1185-1200 1201-1216 1217-1232 1233-1248 1249-1264 1265-1280 1281-1296 1297-1312 1313-1328 1329-1344 1345-1360 1361-1376 1377-1392 1393-1408 1409-1424 1425-1440 1441-1456 1457-1472 1473-1488 1489-1504 1505-1520 1521-1536 1537-1552 1553-1568 1569-1584 1585-1600 1601-1616 1617-1632 1633-1648 1649-1664 1665-1680 1681-1696 1697-1712 1713-1728 1729-1744 1745-1760 1761-1776 1777-1792 1793-1808 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PACIFIC SECTION

NUMBER	NAME	SITE	ATTRIBUTES
1	SCODE1	010152	2101
2	SPDATA	000210	00
3	SIDATA	001630	465
4	SVARS	031114	6030
5	STEPS	000000	5
6	GRAPH	000010	4
7	ANCIL	000120	40
8	PLOT	000210	00

ATTACHES

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016	144	0003222	0000000	12	(6)
FILL	142	7-0468010	0001600	36	(16)
FM&D	141	0001322	0003211	104	(16,11)
GRAD	141	0001600	0003211	104	(16,11)
G1	141	0002353	0000000	209	(2,209)
G1	141	0002353	0000000	209	(2,209)
GRAD	142	0002353	0000000	209	(2,209)
INDEX	142	0002353	0000000	209	(2,209)
G1P	141	0002353	0000000	209	(2,209)
G1P	141	0002353	0000000	209	(2,209)
GRAD	142	0002353	0000000	209	(2,209)
PLT	141	0002353	0000000	209	(2,209)
PLTV	141	0002353	0000000	209	(2,209)
PLT	141	0002353	0000000	209	(2,209)
TAR	141	0002353	0000000	209	(2,209)
TFAT	141	0002353	0000000	209	(2,209)

3.2.6 SOFTWARE COMPONENT 6 (SWPLT)

The program from which CAMPLT grew had the wrong format for the plots. SWPLT was added to do the plotting in the correct format. There are many unused statements in SWPLT.

3.2.6.1 Linkages

SWPLT is called by CAMPLT after the plotting characters are defined.

3.2.6.2 Interfaces

SWPLT interfaces with CAMPLT through the calling sequence and the labeled commons /GRAPH/ and /PLOT/.

3.2.6.3 Inputs

All inputs for SWPLT are from CAMPLT.

3.2.6.4 Outputs

SWPLT creates the actual line printer plot. The headings are created by CAMPLT.

3.2.6.5 Storage

Total space allocated = 5073

3.2.6.6 Description

SWPLT clears the graph array, enters the plotting characters, and writes the graph to the line printer.

3.2.6.7 Flowchart

Not applicable.

3.2.6.8 Listing

2-3844 81043320 11515714 69/545-255
11515714 69/545-255

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TOTAL SPACE ALLOCATED = 121642 373

SAFETY, SECURITY, AND SCIENCE IN THE 21ST CENTURY

3.2.7 SOFTWARE COMPONENT 7 (FETCX)

FETCX is identical to FETCH except that it accesses (200,7) DOTDATA.ACA rather than a local file. FETCH is an undocumented utility.

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4. OPERATION

Each module in this system is run by a batch deck. PLOCON has copies of these decks. Maintenance and generation of the data files is not addressed in this document.

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